



# King County

1200 King County  
Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Meeting Agenda

### King County Flood Control District

*Boardmembers: Julia Patterson, Chair; Reagan Dunn, Vice Chair; Bob Ferguson; Larry Gossett; Jane Hague;  
Kathy Lambert; Joe McDermott, Larry Phillips; Pete von Reichbauer*

1:30 PM

Monday, July 9, 2012

Room 1001

1. Call to Order
2. Roll Call
3. Approval of Minutes of June 11, 2012

#### Briefing

4. FCD Briefing No. FCD12-B01 

Watershed Resource Inventory Areas

*Michael Huddleston, King County Council Director of Municipal Relations*

5. Other Business
6. Adjournment



*Sign language and communication material in alternate formats can be arranged given sufficient notice (206-1000).*

*TDD Number 206-1024.*

*ASSISTIVE LISTENING DEVICES AVAILABLE IN THE COUNCIL CHAMBERS.*



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# King County

1200 King County  
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## Meeting Minutes - Final King County Flood Control District

*Boardmembers: Julia Patterson, Chair; Reagan Dunn, Vice  
Chair; Bob Ferguson; Larry Gossett; Jane Hague; Kathy  
Lambert; Joe McDermott, Larry Phillips; Pete von Reichbauer*

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1:30 PM

Monday, June 11, 2012

Room 1001

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### SPECIAL MEETING --DRAFT MINUTES--

1. **Call to Order**

*The meeting was called to order at 1:44 p.m.*

2. **Roll Call**

**Present:** 9 - Mr. Ferguson, Mr. Gossett, Ms. Lambert, Mr. Phillips, Ms. Patterson, Ms. Hague, Mr. von Reichbauer, Mr. Dunn and Mr. McDermott

3. **Approval of Minutes of May 4, 2012**

*Boardmember Gossett moved to approve the minutes of the May 4, 2012 meeting as presented. Seeing no objection, the Chair so ordered.*

### Discussion and Possible Action

4. **FCD Resolution No. FCD2012-06**

A RESOLUTION authorizing the condemnation of certain property for the Reddington Levee Setback Project, CIP Number 1112035.

**On 6/11/2012, a public hearing was held and closed.**

*On 6/11/2012, the following people spoke:*

- 1) Daniel DeLue
- 2) Michael McDowell
- 3) Dave Craven
- 4) Don Bradshaw
- 5) Jon Aguirre

*Kjris Lund, Executive Director, summarized her staff report. She acknowledged the work of two staff members who were present: Linda Holecek, Water and Land Resources, and Lillian Holley, Facilities Management.*

*Mark Isaacson, Division Director, Natural Resources and Parks, briefed the Board.*

*Erik Peters, River and Floodplain Section, Water and Land Resources, answered questions of the Board.*

**A motion was made by Boardmember Dunn that this FCD Resolution be Passed.  
The motion carried by the following vote:**

**Yes:** 9 - Mr. Ferguson, Mr. Gossett, Ms. Lambert, Mr. Phillips, Ms. Patterson, Ms. Hague, Mr. von Reichbauer, Mr. Dunn and Mr. McDermott

## **5. Adjournment**

*The meeting was adjourned at 2:15 p.m.*

Approved this \_\_\_\_\_ day of \_\_\_\_\_.

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Clerk's Signature



516 Third Avenue • Room 1200 • Seattle, WA 98104  
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www.kingcountyfloodcontrol.org

## **STAFF REPORT**

July 9, 2012

### **Update on Flood District WRIA-related activities**

#### **2012 Grants Status**

On May 14, 2012 the Flood District Board of Supervisor's approved Resolution No. FCD2012-07. This resolution authorized the expenditure of \$3,000,000 of King County Flood Control District funds on cooperative watershed management arrangements and actions. The purpose is to sustain water quality and water resource habitat protection and management at levels historically allocated by the King Conservation District:

\$1.2 million to WRIA 8

\$1.2 million to WRIA 9

\$0.6 million to the Snoqualmie Watershed of WRIA 7

Water and Land Resources Division (WLRD) is managing the 2012 grant program on behalf of the Flood District. At the June 25, 2012, Executive Committee of the Flood District, WLRD provided a progress report on the grant award process. WLRD will screen the grant requests submitted via WRIA's 7, 8, and 9 prior to submitting the recommended list to the Executive Committee at its July 23, 2012, meeting. WLRD is screening the applications for conformance with contractual requirements, as well as verifying the scopes of work and budgets.

#### **2013 Budget Development**

Resolution FCD2012-07 requested that the King County Executive or his designee prepare for the District a report that analyzes and includes a review of the current evaluation criteria to determine whether it is an equitable allocation formula within King County and adjoining counties. This report is due by October 1, 2012.

The report is also to include options for the possible expenditure of District revenue for activities and projects of WRIA's 8, 9, and the Snoqualmie Watershed portion of WRIA 7 beginning in 2013.

To date staff has identified the following issues to be included in the requested report:

- Effect of including King County portions of WRIA 10 that includes the City of Federal Way. Federal Way was not part of the King Conservation District but is

**Board of Supervisors:** Julia Patterson, Chair • Reagan Dunn, Vice Chair  
Bob Ferguson • Larry Gossett • Jane Hague • Kathy Lambert • Joe McDermott • Larry Phillips • Pete von Reichbauer  
Executive Director: Kjrstine Lund

part of the Flood District. Federal Way includes the significant Hylebos Wetlands.

- Various funding level assumptions including options to:
  - Restore 2012 \$3 million contribution to the WRIA's
  - Restore 2012 contribution and provide 2013 funds equal to 2012
  - Restore 2012 contribution and provide 2013 funds at 10% of the estimated Flood District levy amount
  - Effect on average home-owner with an increased Flood District levy and reduced KCD assessment
  - Effect on average home-owner with an increased Flood District levy and unchanged KCD assessment
- Clarification of permissible uses related to WRIA activities and projects

Michael Huddleston will be assisting the District with its evaluation of options and participating in intergovernmental meetings related to this issue. He will be keeping the Executive Committee informed of his work.

Mark Isaacson will be leading WLRD's response to the Resolution and the 2013 budget development.

The Flood District Advisory Committee will be informed of the options being developed as part of their charge to review and recommend an annual operating and capital budget for the Flood District.



KING COUNTY  
FLOOD CONTROL  
DISTRICT

**Watershed**

**Resource**

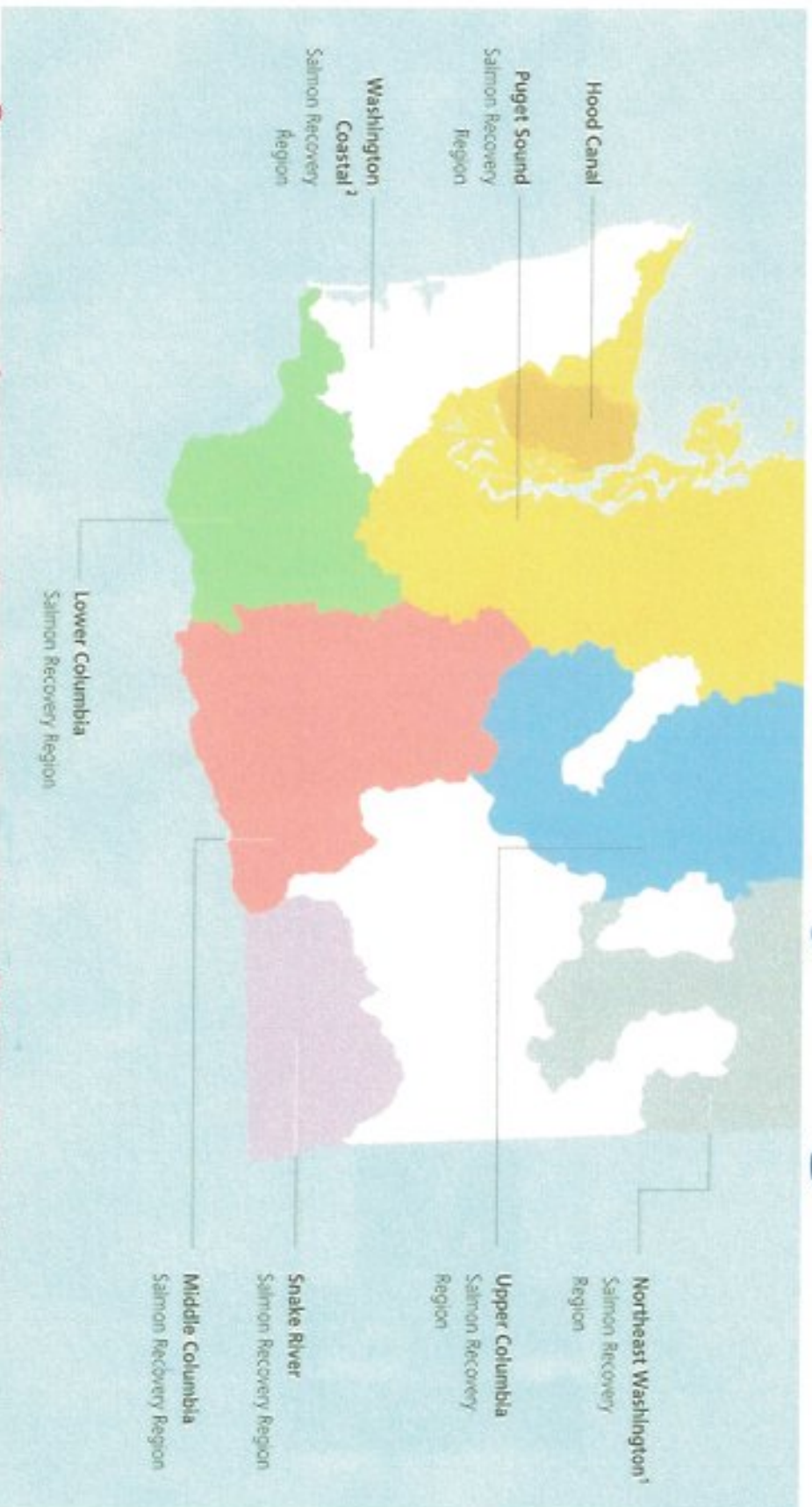
**Inventory**

**Areas**

JULY 9, 2012

*Protecting public safety, the regional economy and critical infrastructure.*

# Salmon Recovery Regions



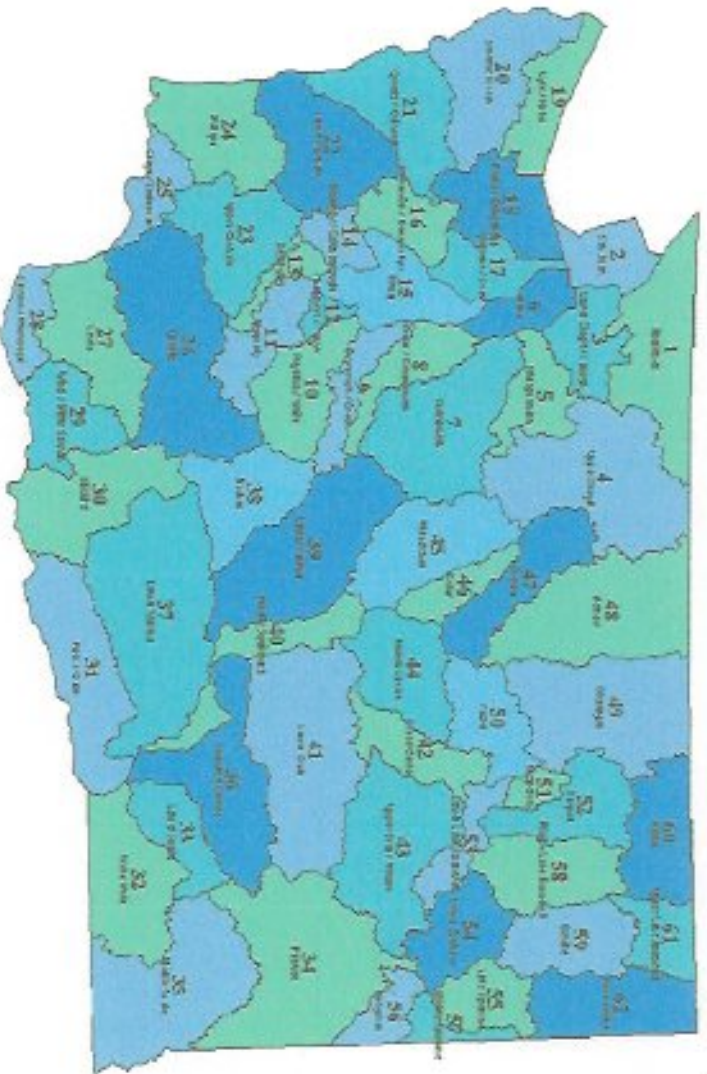
- **Seventeen salmon species (covering about 75 % of Washington State) have been listed as threatened or endangered under ESA**
- "A salmon stock will be considered a distinct population, and hence a "species" under the ESA, if it represents an evolutionary significant unit (ESU) of the biological species."



# WRIA's in Washington State

**“WRIA” is a watershed resource inventory area, as provided for under RCW 90.82.020**

**Trivia:** the term “WRIA” originates from a 1975 division of the state by the Department of Fisheries into 62 inventory areas



**King County has four WRIA's within its boundaries:**

- WRIA 7: Snoqualmie/South Fork Skykomish (@680 sq. miles King County portion)
- WRIA 8: Lake Washington/Cedar/Sammamish (@ 692 sq. miles King & Snohomish counties combined)
- WRIA 9: Green/Duwamish and Central Puget Sound (@664 sq. miles)
- WRIA 10: Puyallup/White River (@ 120 sq. miles King County portion)

## What Has Caused the Decline of Salmon throughout Washington State?

- ESA requires that five general criteria (“listing factors”) be evaluated:
  - For Washington salmon, these threats have commonly been known as the “4 H’s”
    - **Habitat**
    - Harvest
    - Hatcheries, and
    - Hydro

*Natural factors such as disease and predation must also be evaluated.*



# ESA Decision Criteria

- Specific “Listing Factors” identified for Puget Sound Chinook as a “threatened” species include:
  - Passage obstructions, stormwater, toxics & water quality, enforcement of existing regulations
  - forest management, agricultural practices, urban and rural development, flow conditions, channel function, floodplain functions, nearshore processes
  - dredging in estuaries and lower mainstem, harvest, and hatcheries

# What are recovery plans supposed to do?

- Under ESA section 4(f) a recovery plan must include:
  - Site-specific management actions necessary for the conservation and survival of the species,
  - Objective, measurable criteria which, when met, would result in a determination that the species be removed from the list (i.e., de-listing), and
  - Estimates of the time required and cost to carry out those measures needed to achieve recovery

The plans do not obligate any party other than NMFS, and are not enforceable or regulatory



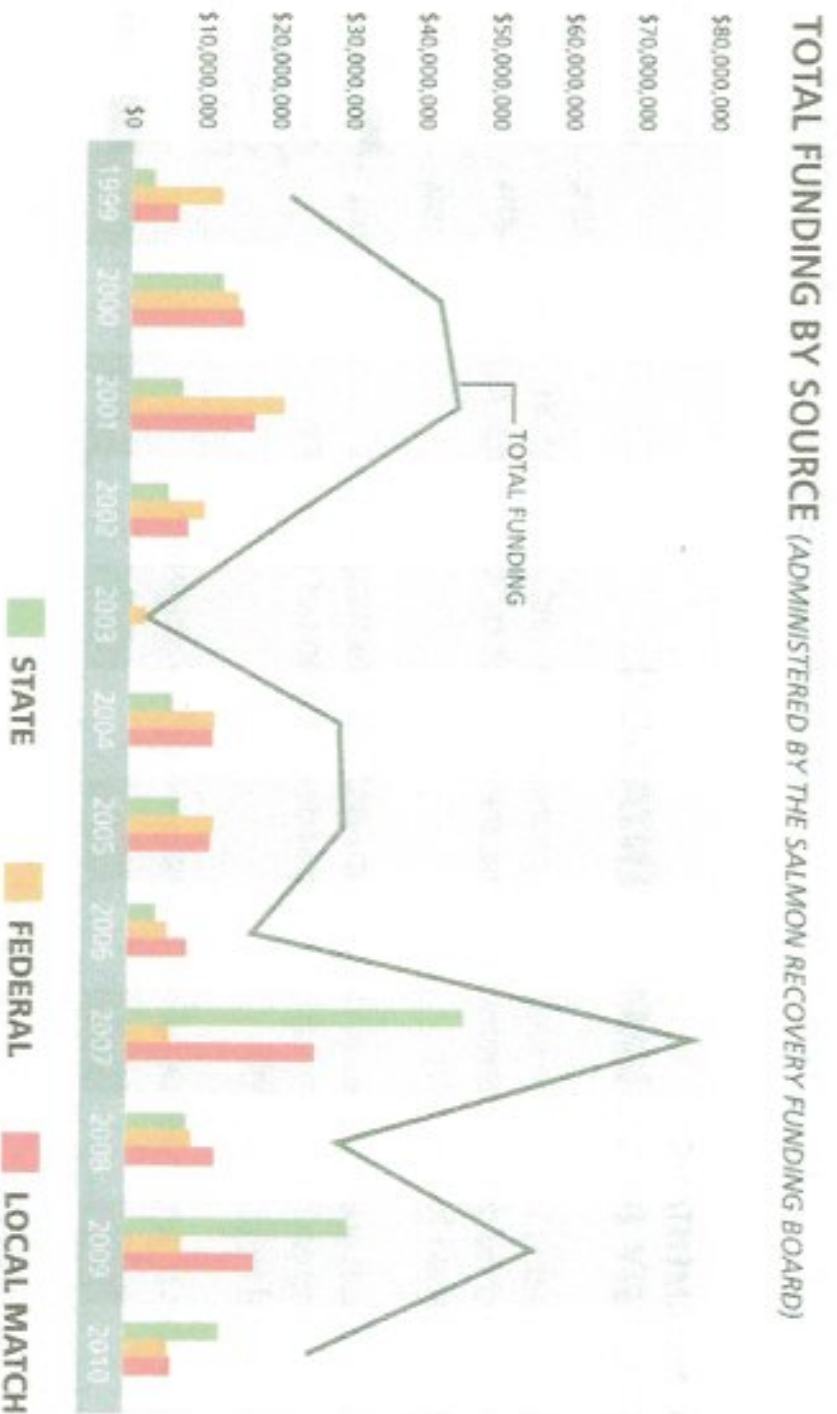
# State Response to ESA:

- 1998-99 Legislature adopted “Salmon Act” (RCW 77.85).
- Calls for decision-making at local level, with regional coordination
- Two major initiatives:
  - Immediate improvements to habitat, harvest and hatcheries
  - Develop regional consensus on plans and actions to recover salmon
- Legislature created ‘Salmon Recovery Funding Board’ to coordinate state grants and provide fiscal oversight
- Seven salmon districts/six self-created groups submitted plans jointly with GSRO to the federal agencies as recovery plans under the federal Endangered Species Act section 4(f). These plans also meet the requirement of Washington’s Salmon Recovery Act RCW 77.85.030(1).

# Legislature tasked local government to:

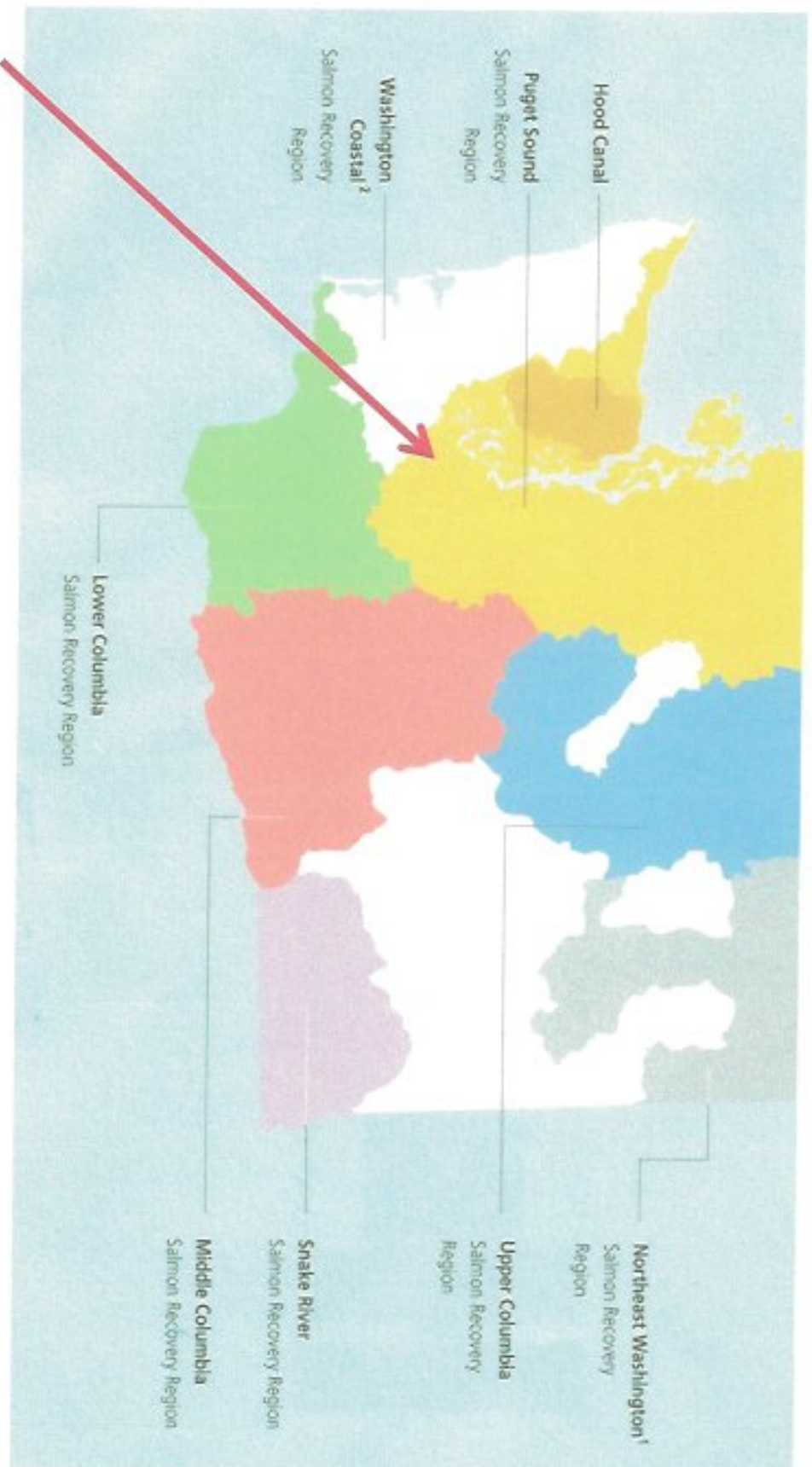
- Revise growth management and shoreline management plans; adopt & fund appropriate capital projects
- Participate in local stakeholder groups to ensure adequate water quantity (RCW 90.82)
- Support lead entities created to identify best science for salmon recovery (RCW 77.85)

# Statewide Funding





# Puget Sound Salmon Recovery Region



**King County's Watershed Resource Inventory Areas are coordinated through the Puget Sound Salmon Recovery Region**



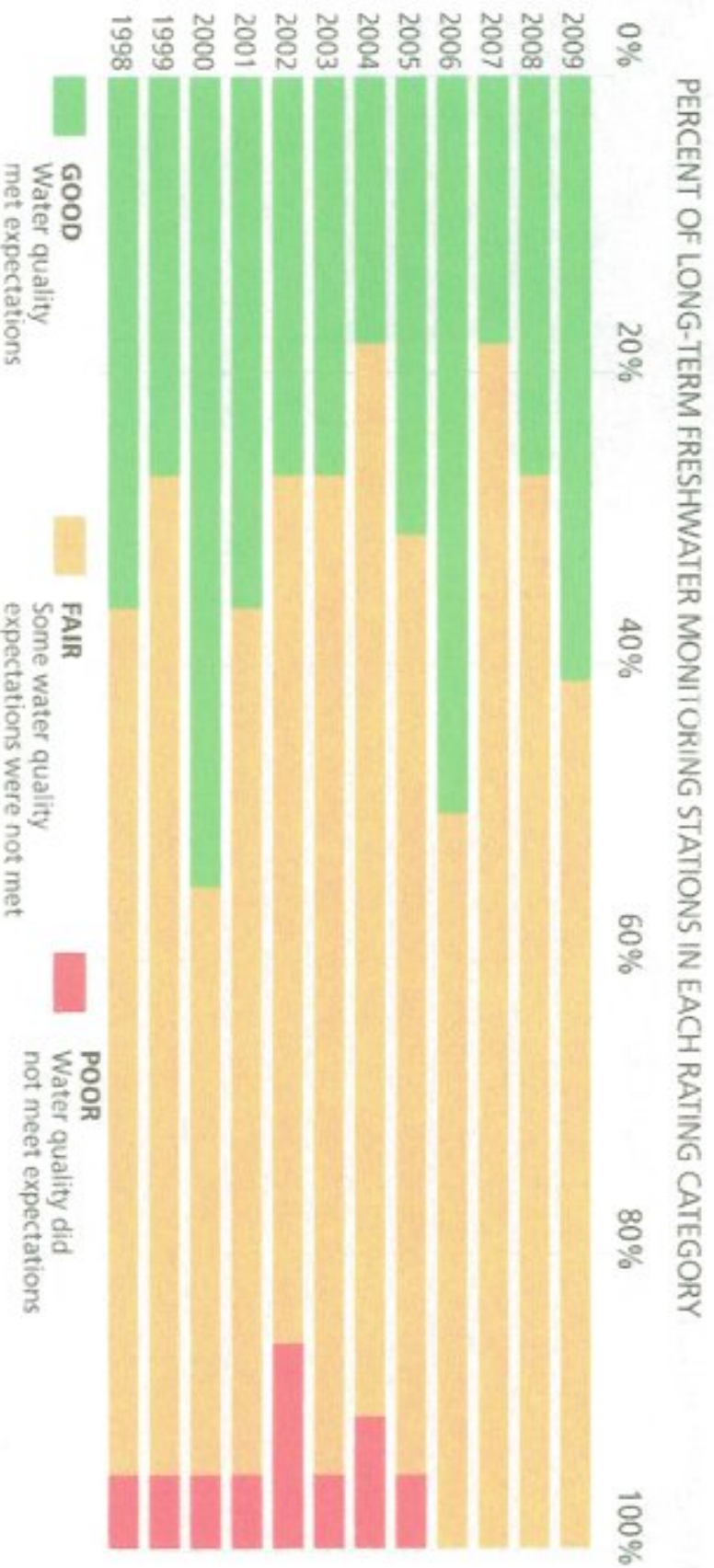
# Puget Sound Salmon Recovery Region

- Covers over 16,000 square miles; second largest US estuary
- 20 major river systems and tributary creeks
- **Human Population** = 4,093,500 = 2/3<sup>rd</sup> of state population
- **Counties:** All or parts of Whatcom, Skagit, Island, San Juan, Snohomish, **King**, Pierce, Thurston, Mason, Kitsap, Jefferson, and Clallam
- **Treaty Tribes:** Lummi Nation, Nooksack, Stillaguamish, Jamestown S'Klallam, Muckleshoot, Nisqually, Port Gamble, S'Klallam, Lower Elwha S'Klallam, Puyallup, Sauk-Suiattle, Skokomish, Squaxin Island, Suquamish, Swinomish, Tulalip, Upper Skagit
- **Listed Fish found in King County: Chinook, Steelhead, Bull trout**

*Regional Recovery Organization: Puget Sound Shared Strategy*

# Are stream and river waters clean or cool enough to support fish?

Source: Washington Department of Ecology



# Is there enough water in streams and rivers during critical spawning time in late summer?

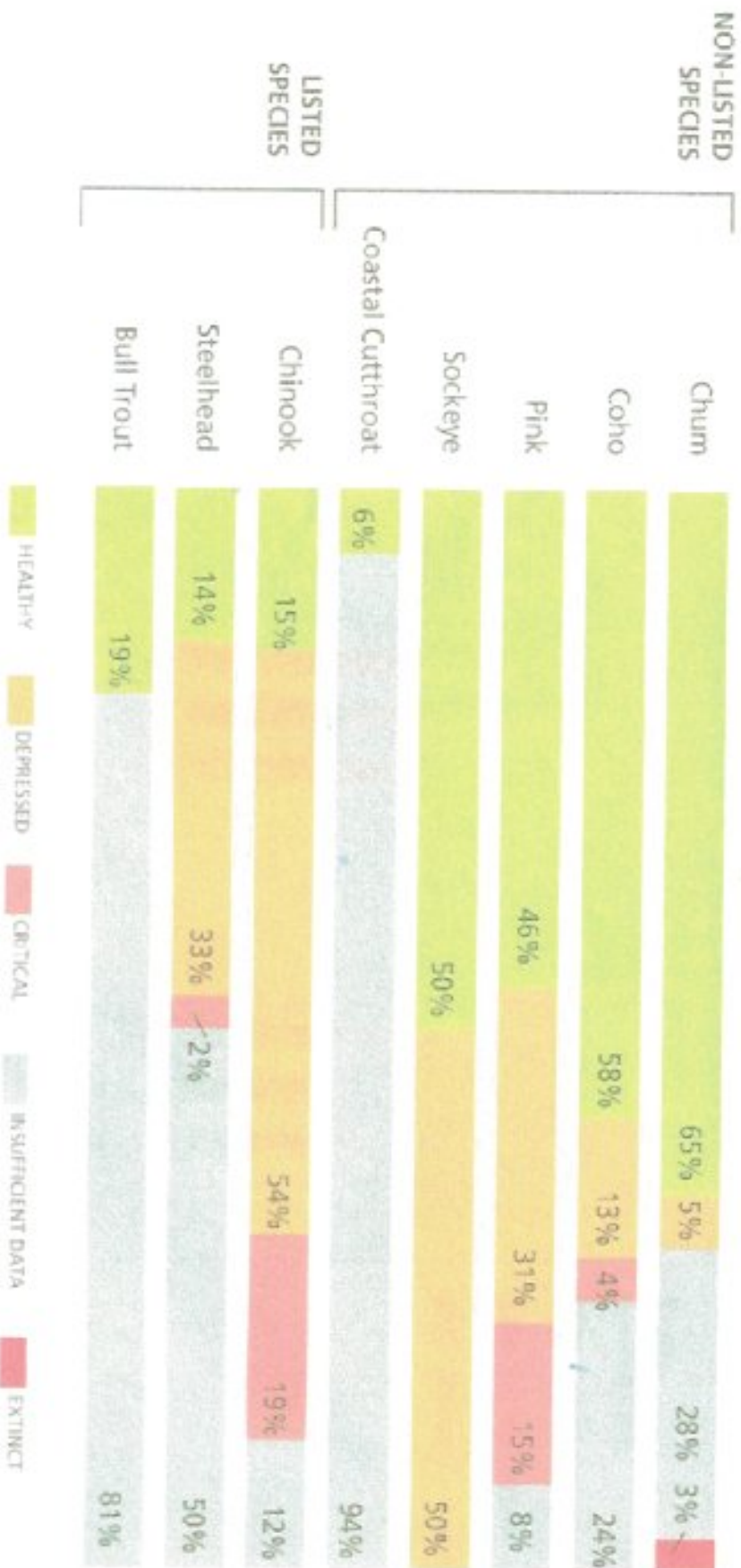
Source: Washington Department of Ecology



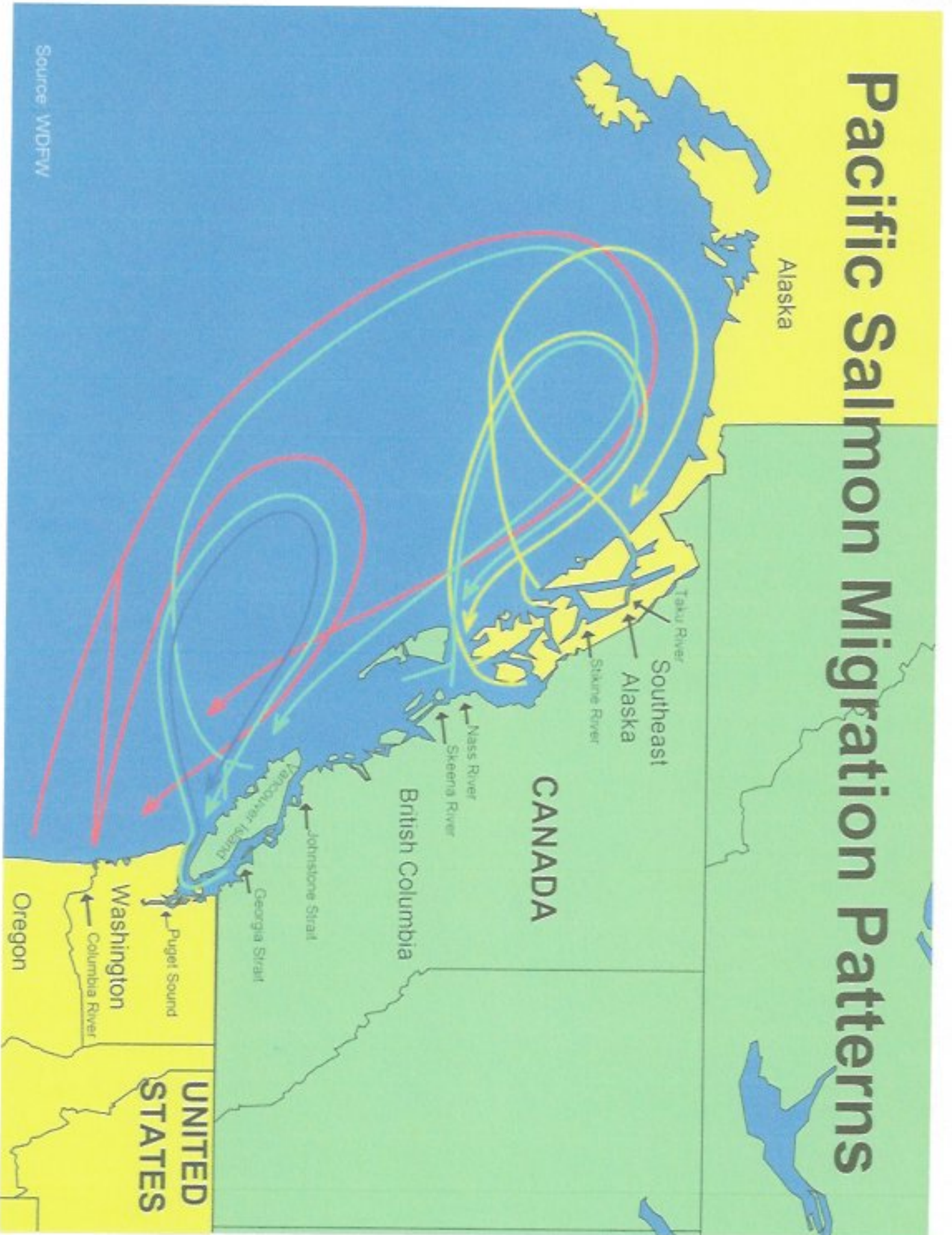


# Fish Status Summary: Puget Sound Salmon Recovery Region

Source: Washington Department of Fish & Wildlife



# Pacific Salmon Migration Patterns





## Chinook Salmon Trends in Puget Sound Salmon Recovery Region



**The recovery plan anticipates over one thousand discrete projects, costing several billion dollars, over the next 50 years.**

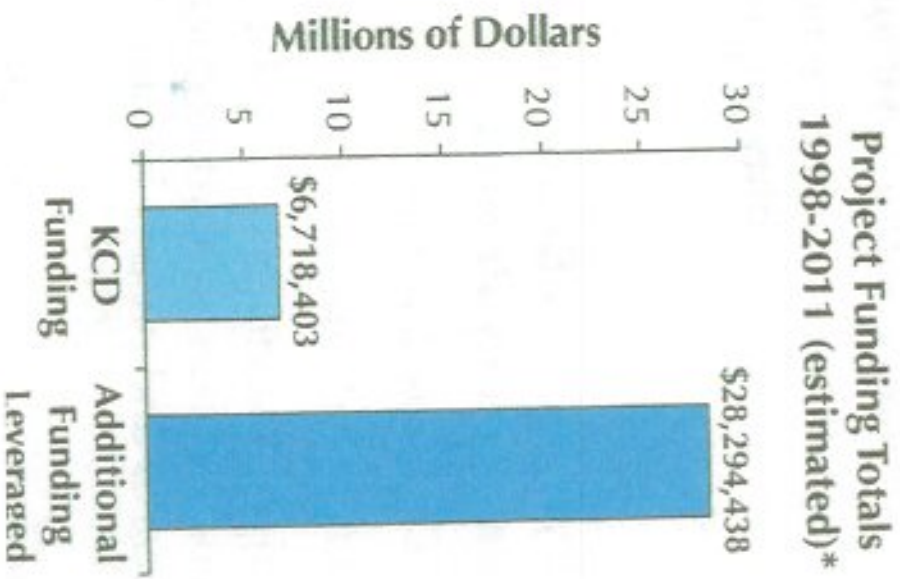
### Sources:

Recovery action progress: Puget Sound Partnership  
Abundance: Washington Department of Fish & Wildlife



# WRIA 7

## SNOQUALMIE/SOUTH FORK SKYKOMISH WATERSHEDS

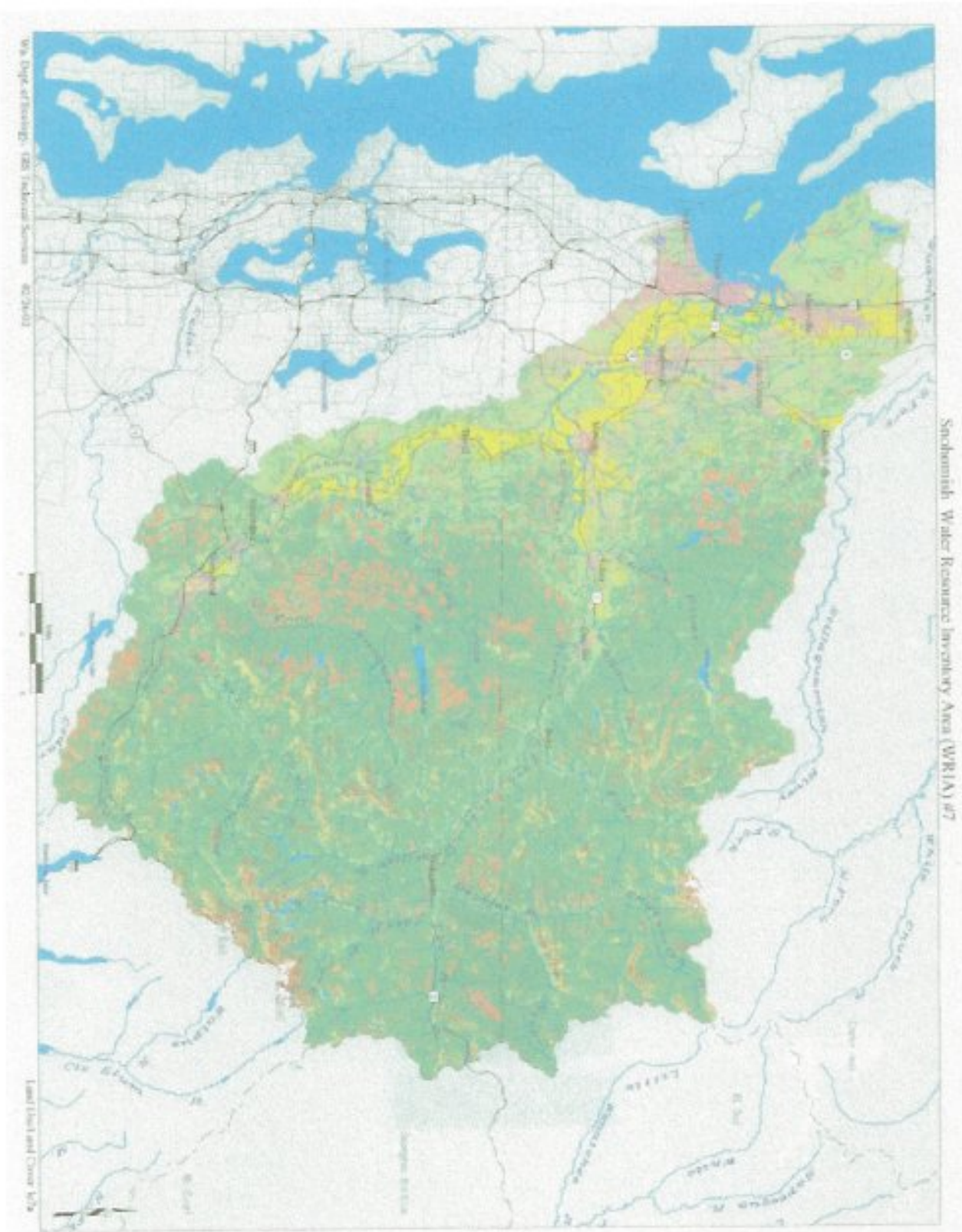


## WRIA 7

- 680 square miles in King County, from the Cascade Crest to the confluence with the Skykomish River north of Duvall.
- Snoqualmie River more than 43 miles from Three Forks Park near the town of Snoqualmie to confluence with the Skykomish.
- The watershed supports wild runs of coho, Chinook, pink, chum and steelhead salmon
- Forest & wilderness cover 74% of total 1,856 square miles in the watershed (including larger Snohomish County portion)
- Includes 4,500 acres of farm land protected through Farmland Preservation Program
- King County manages more than 5,000 acres of parks and natural areas
- Carnation, Duvall, Everett, Gold Bar, Granite Falls, Index, Lake Stevens, Marysville, Monroe, North Bend, Snohomish, Snoqualmie, Sultan & Tulalip Reservation



# WRIA 7 Land Cover



Stiktonish Water Resource Inventory Area (WRIA) #7 WDFW - Salmon Stock Inventory  
FALL CHINOOK

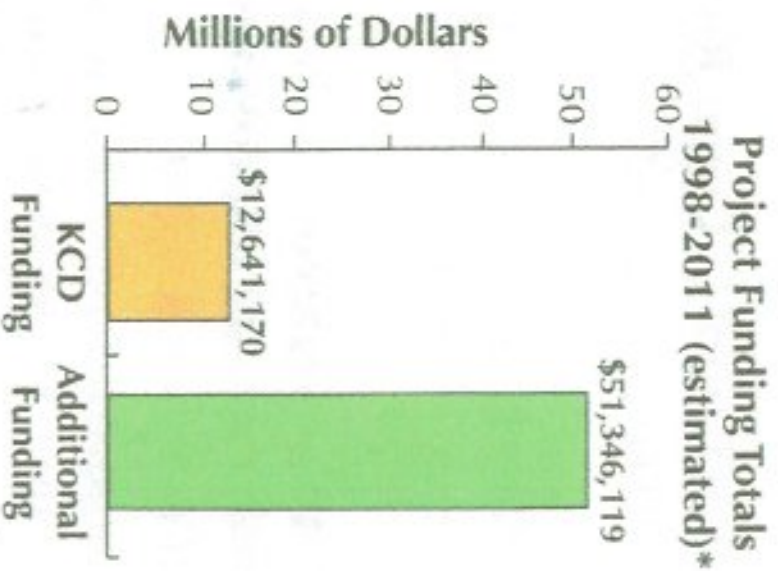
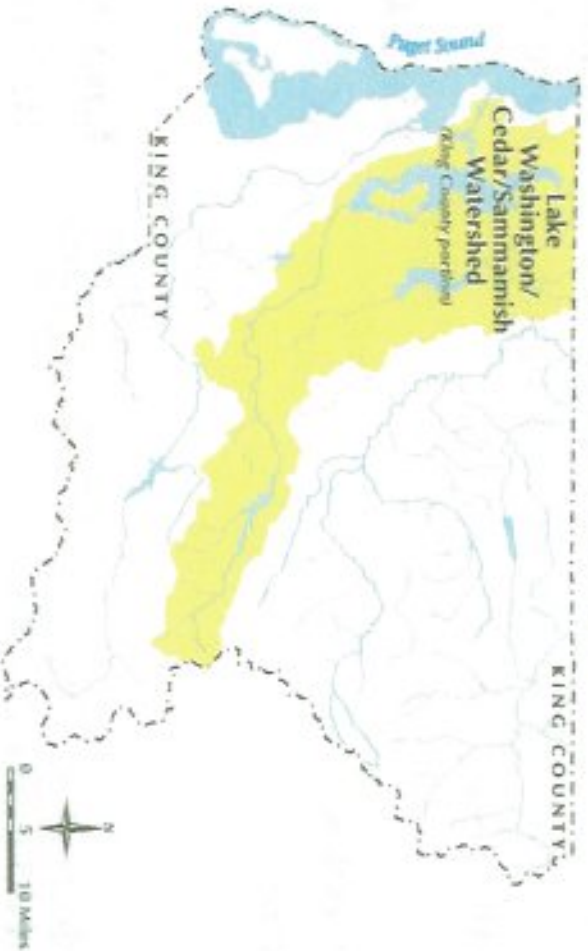
Legend:  
 ~~~~~ Current ~~~~~ Dependent ~~~~~ Healthy ~~~~~ Impaired  
 ~~~~~ Stream Segment (Current Listing: Excellent)  
 ~~~~~ Stream Segment (Current Listing: Fair)

Scale: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1



# WRIA 8

## LAKE WASHINGTON/ CEDAR/SAMMAMISH WATERSHED

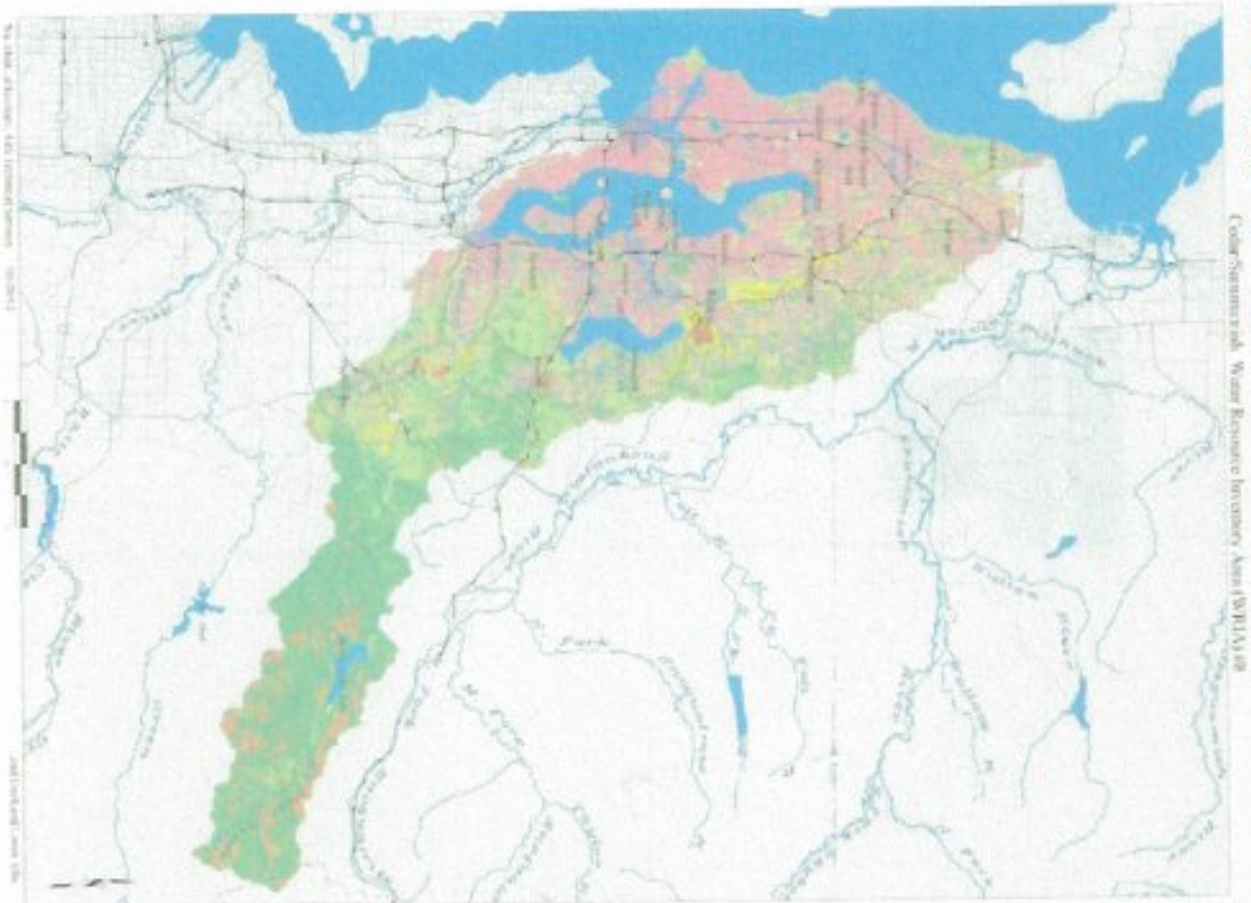


id,

## WRIA 8

- About 15% of the total watershed in Snohomish County (@103 square miles), balance in King County (@ 589 square miles)
- Most densely populated WRIA in Washington
- Cedar & Sammamish Rivers; Lake Washington and Lake Sammamish
- Beaux Arts Village, Bellevue, Bothell, Clyde Hill, Edmonds, Hunts Point, Issaquah, Kenmore, Kent, Kirkland, Lake Forest Park, Maple Valley, Medina, Mercer Island, Mill Creek, Mountlake Terrace, Mukilteo, Newcastle, Redmond, Renton, Sammamish, Seattle, Shoreline, Woodinville, Yarrow Point

# WRIA 8 Land Cover





**Cedar-Sawtooth Water Resource Inventory Area (WRIA) 08 WITH SURROUNDING STATES**  
**PALE-CHINO**

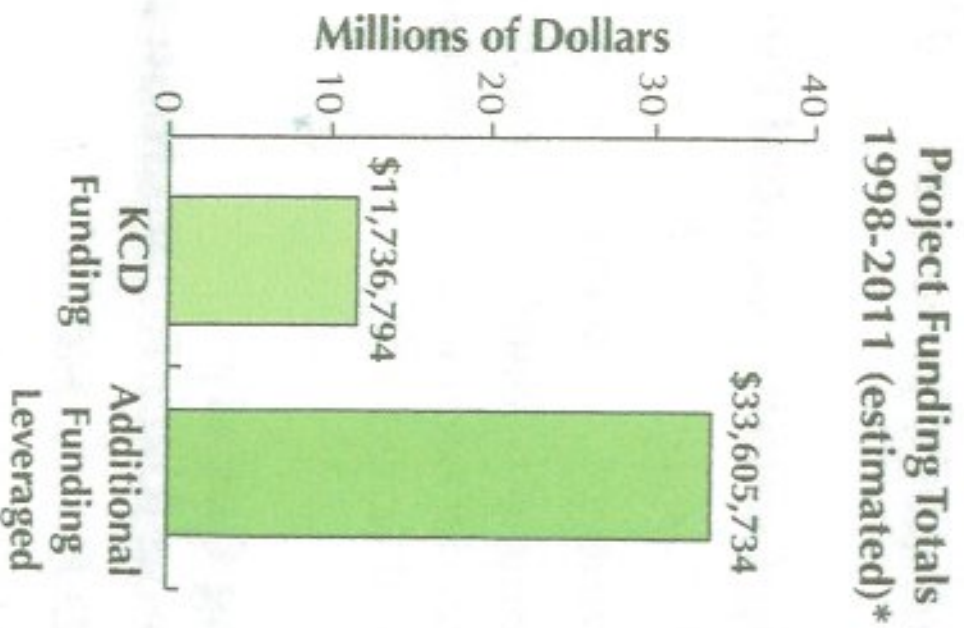
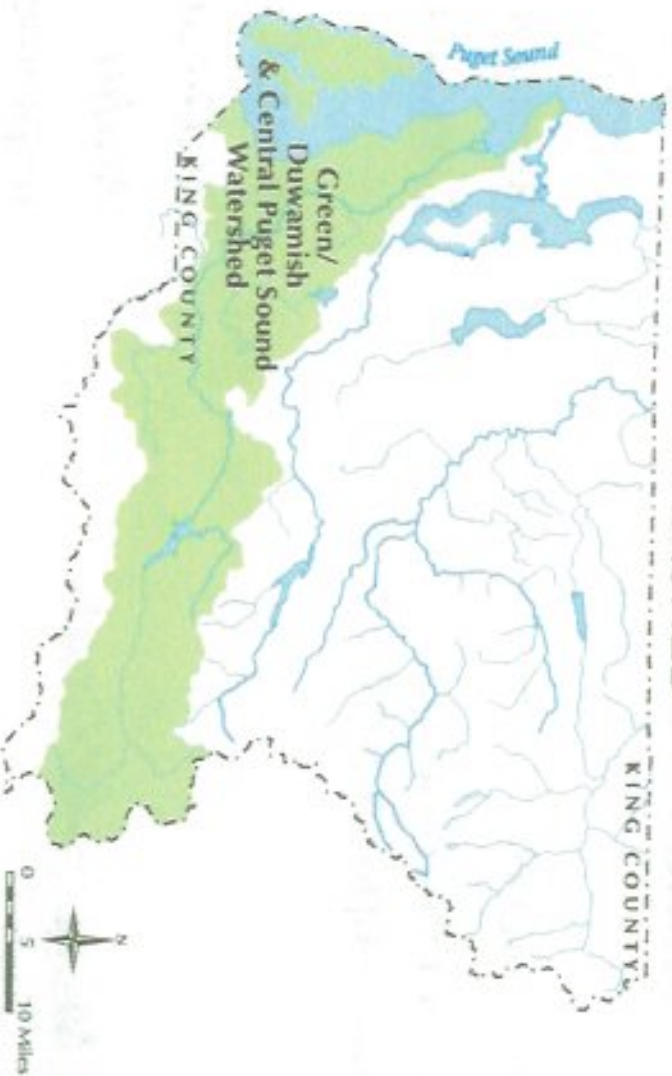
**Legend:**  
 - Cedar-Sawtooth Water Resource Inventory Area (WRIA) 08  
 - Major Water Bodies  
 - Major Roads  
 - Major Towns  
 - Major Rivers  
 - Major Lakes  
 - Major Mountains

**Scale:**  
 0 10 20 30 40 50 60 70 80 90 100 Miles

**North Arrow:**  
 N

# WRIA 9

## GREEN/DUWAMISH AND CENTRAL PUGET SOUND WATERSHED



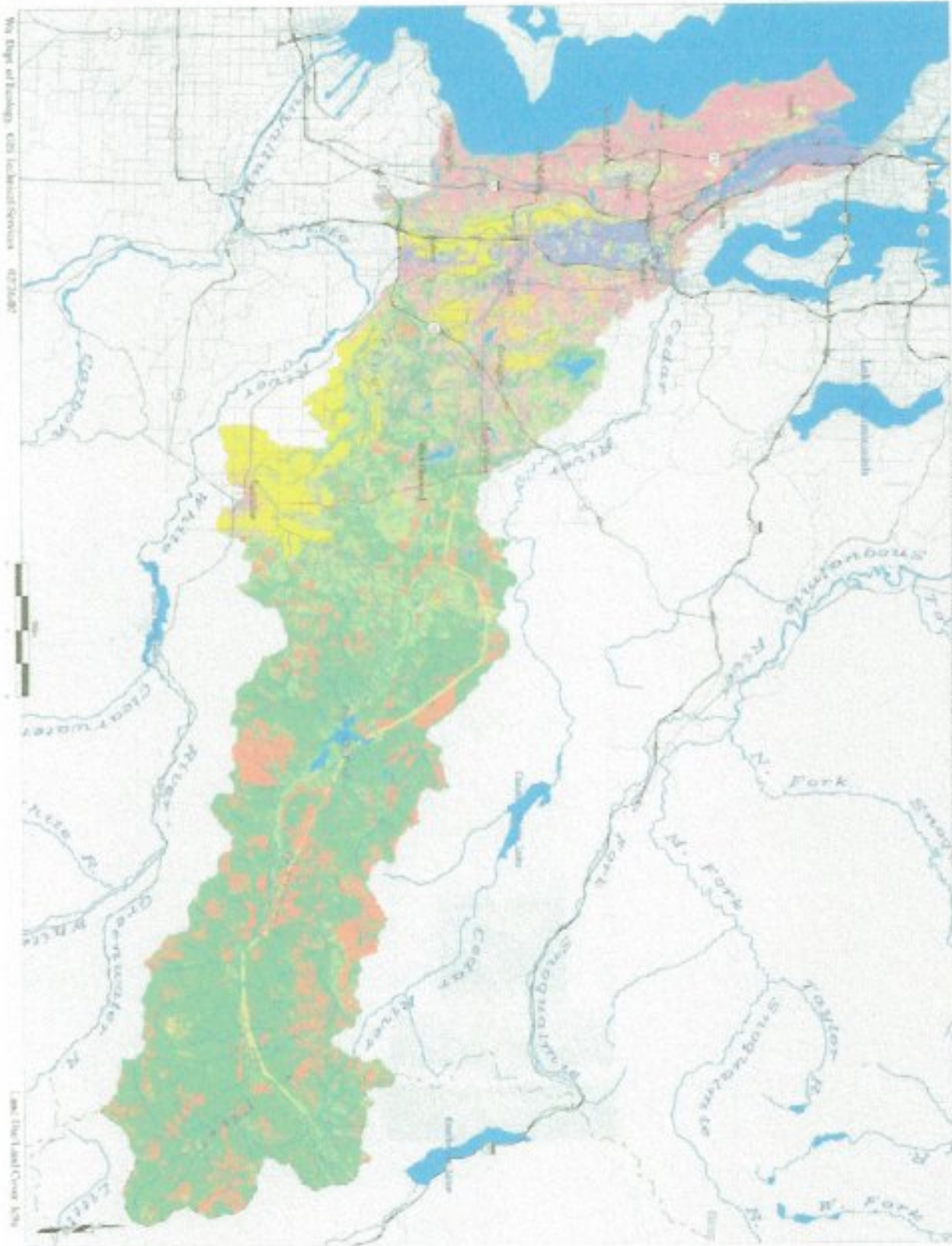
## WRIA 9

- Human population is 583,700; 89% within Urban Growth Boundary
- Includes 92 miles of marine shoreline
- Green River empties into the Duwamish 11 miles upstream of its mouth
- Middle Green River considered one of 10 most important habitat areas for Chinook
- Watershed serves as City of Tacoma's water supply
- Seattle, Renton, Kent, Auburn, SeaTac, Federal Way, Tukwila, Burien, Covington, Maple Valley and Enumclaw



# WRIA 9 Land Cover

Douglas Green Water Resource Inventory Area (WRIA) #9



Downish Creek Watershed Water Resource Inventory Area (WRIA) #9 WDFW - Salmonid Stock Inventory  
FALL CHINOOK

Legend:  
 - Culvert  
 - Deposited  
 - Habitat  
 - Unknown

State Species of Concern (using Collier)

Scale: 0 to 10 miles

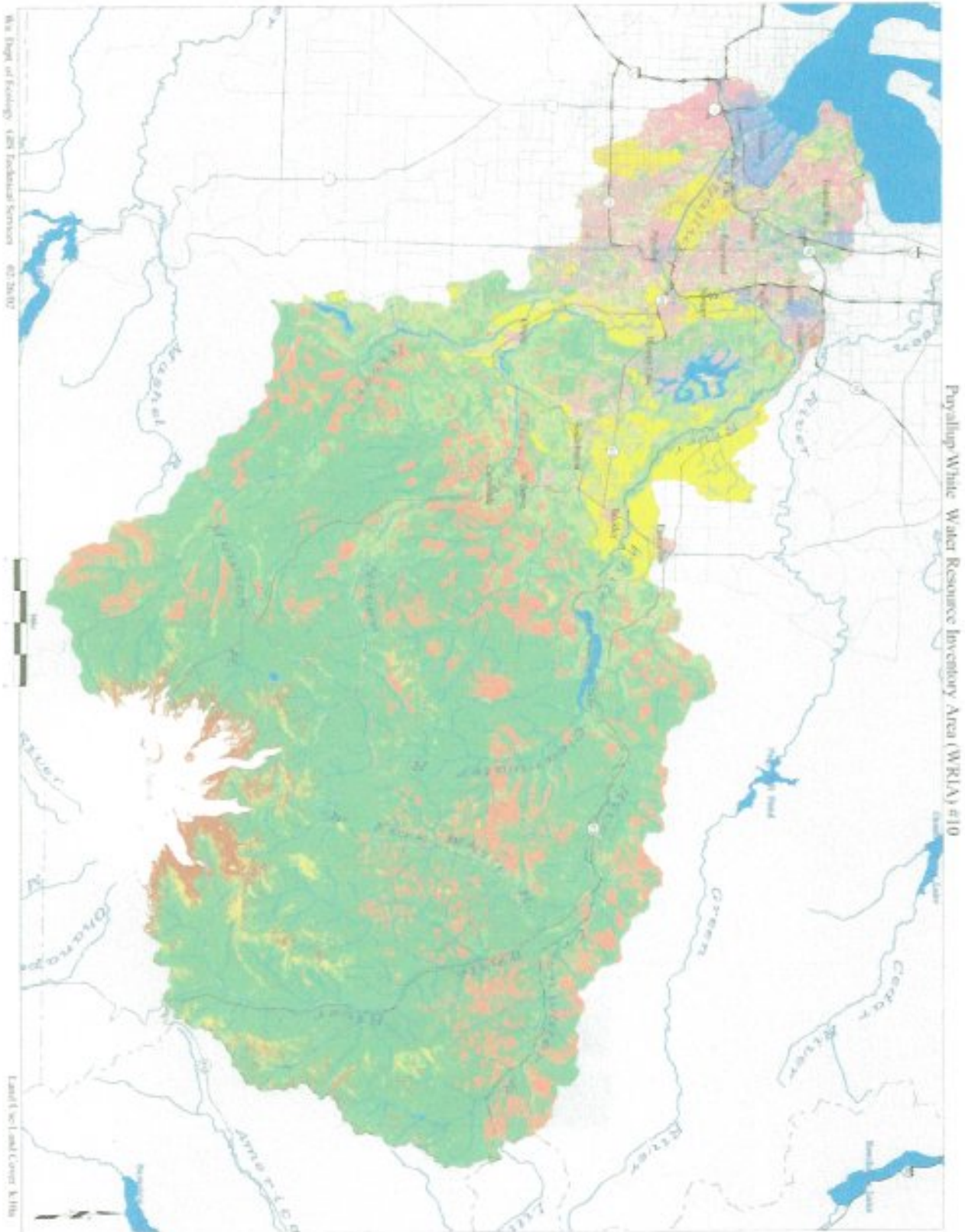
North Arrow



# WRIA 10

- Tacoma, Sumner, Lakewood, University Place, Fife, Federal Way and Puyallup
- System has three dams: hydro facilities at Electron (Puyallup) and Lake Tapps; and Mud Mountain flood control dam on the White River.
- Headwaters of White and Carbon Rivers on flanks of Mount Ranier; both are tributaries of Puyallup which empties into Commencement Bay at Port of Tacoma
- King County has previously invested in habitat improvements to Hylebos; Federal Way not part of King Conservation District.

# WRIA 10 Land Cover





| Legacy of the KCD Conservation Assessment & WRIA Partnership: |                                          |                        |                                  |                    |
|---------------------------------------------------------------|------------------------------------------|------------------------|----------------------------------|--------------------|
|                                                               |                                          |                        |                                  |                    |
|                                                               |                                          | KCD Funds<br>1998-2011 | Additional<br>Funds<br>Leveraged | Projects<br>Funded |
| <u>WRIA</u>                                                   |                                          |                        |                                  |                    |
| 7                                                             | Snoqualmie / South Fork Skykomish        | \$6,718,403            | \$28,294,438                     | 155                |
| 8                                                             | Lake Washington / Cedar / Lake Sammamish | \$12,641,170           | \$51,346,119                     | 141                |
| <u>9</u>                                                      | <u>Green / Duwamish</u>                  | <u>\$11,736,794</u>    | <u>\$33,605,734</u>              | <u>152</u>         |
|                                                               |                                          | \$31,096,367           | \$113,246,291                    | 448                |

• For the years 1998 – 2005, the KCD conservation assessment was \$5 per parcel (about \$3 million total, across the total KCD membership)

• From 2006 – 2011, the KCD conservation assessment was \$10 per parcel (about \$6 million annually).

• Each \$1 provided by KCD for WRIA projects leveraged about \$3.65 in other revenues (state & federal grants, local funds, Conservation Futures, etc.)